



UNICORN project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No 101180172.

UNICORN end-of-the-year Newsletter

INTRO

UNICORN project targets various sectors, including first responders, insurance, forest industries, and utilities, by offering tools for real-time hazard monitoring, risk assessment, and proactive response.

The project combines Earth Observation data with cutting-edge technologies to provide early warning systems, improve forecasting for **floods, wildfires, and volcanic eruptions**, and ensure scalable solutions for diverse stakeholders. With an emphasis on collaboration, open-source principles, and data sharing, UNICORN aims to enhance resilience and drive sustainable, data-driven climate action.

The goal is to enhance local emergency management and facilitate short-term recovery processes. To do so, a series of tools for the early warning, forecasting, and monitoring of hazards are developed.

At the end of this year, 2025, we would like to take the opportunity to thank all the partners involved in the project for the excellent work carried out so far, and to provide you with an update on the current status and progress of the project.

Consortium partners: SIS 2B - Service d'Incendie et de Secours de la Haute-Corse | EDGE in Earth Observation Sciences | Riscognition | Istituto Nazionale di Geofisica e Vulcanologia | ALPHA Consult | BEYOND Centre | AASARS/ NOA | Mitiga Solutions | Fondazione LINKS – Leading Innovation & Knowledge for Society | EUSPA - EU Agency for the Space Programme

By today, the UNICORN project has **successfully completed all planned technical and scientific activities** in alignment with the Grant Agreement.

The consortium **completed foundational activities**, including the preparation and internal review of the Data Management Plan and the GDPR, Gender Balance and Ethical Issues Management Plan, **ensuring that data protection, ethics, and FAIR data principles are fully integrated into project workflows.**

Additionally, the coordination, risk management, and quality assurance processes have been effectively established and implemented, supporting **smooth execution and technical coherence** across all WPs.

The project is technically on track, with a solid foundation in place for the upcoming implementation and validation phases. The consortium finalised the definition of end-user needs and requirements through extensive desk research, literature review, and a structured survey process, with responses collected across multiple stakeholder groups. These inputs informed the development of the use case scenarios, which were finalised and described in detail.

The use cases reflect diverse application domains and lay the foundation for a targeted solution. Simultaneously, the **design and planning of the applications have commenced, with each application team aligning their objectives and workflows with the identified user needs and use case requirements.**

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